

Executive Registry
63-3809/6

17 May 1963

*DOE REVIEW
COMPLETED*

Dear Dr. Seaborg:

Mr. John McCone has asked me to thank you for having forwarded to him the supplement to the Commission's Annual Report to Congress for 1962 entitled "Fundamental Nuclear Energy Research - 1962".

Sincerely,

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[Redacted]
Executive Assistant

Dr. Glenn T. Seaborg *GLT*
Chairman
U. S. Atomic Energy Commission
Washington 25, D. C.

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UNITED STATES
ATOMIC ENERGY COMMISSION
WASHINGTON 25, D.C.

ER file

MAY 7 1963



Dear Mr. McCone:

Recently, I forwarded to you a copy of the Commission's Annual Report to Congress for 1962. I am pleased to forward to you a supplement to that report entitled: "Fundamental Nuclear Energy Research-1962."

Fundamental Nuclear Energy Research-1962 is our method of summarizing some of the more noteworthy achievements being made under Commission-sponsored basic research and exploratory development. The latter is a term used to describe studies that have advanced out of the basic research stage but that cannot aptly be referred to as applied research.

In the section on Research in the Medical and Life Sciences, some of the many ways in which radiation and radioisotopes are helping to give us new knowledge about the life process are described, as are some of the ways in which atomic energy is being used in various forms of medical therapy.

The second section--Transplutonium Research--is an interesting account of what we are doing to discover new elements and the steps we are taking to make the more recently-discovered elements available in quantities sufficient to sustain research and development into their basic properties and practical usefulness.

Under the Physical Research section, the recent "population explosion" in the known or suspected number of elementary particles that make up all matter is described, as are a number of recent basic findings regarding the interrelationship of the elementary particles with other matter. Also of interest is the description of how computers are being used not only to evolve new basic theories of science but also how they are being used to show the probable results from experiments involving old and new theories.

The Research in Reactor Development section describes a number of exploratory development studies which may lead to more efficient uses of nuclear energy to provide power. The Commission's work in reactor safety is also summarized in this section.

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The fifth section--Environmental Radiation Studies--is particularly interesting. Commission-sponsored studies in this area are providing valuable knowledge regarding the effects of radiation on plant and animal systems. They are also generating new information of a non-nuclear nature--such as on a method for reforestation of denuded land, or on previously-unknown facts about ocean currents, or that certain types of fish of commercial value abound in deep water areas previously not suspected.

The Waste Treatment and Disposal section of the Report describes some of the work we are doing to develop permanent and safe methods of disposing of radioactive wastes.

I hope you will find the enclosed report informative and useful.

Sincerely,



Glenn T. Seaborg
Chairman

Honorable John A. McCone
Director
Central Intelligence Agency
2430 E Street, N.W.
Washington 25, D.C.

Enclosure

